EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1625	382/199.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 11:08
L2	225	382/199.ccls. and (derivative)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 11:08
L3	106	382/199.ccls. and (derivative)with (edge or contour)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 11:10
L4	70	382/199.ccls. and (derivative)with (edge or contour) and (smooth$4 or blur$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 11:11
L5	7	382/199.ccls. and (derivative)with (edge or contour) and (smooth$4 or blur$4)and microscope	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 11:12

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S74	602	filter$4 with focus$4 with noise	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 11:51
S75	5	filter$4 with focus$4 with noise with smooth$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:00
S76	2	filter$4 with focus$4 with gradient with smooth$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:18
S77	133	gradient near4 filter$4 with noise	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:18
S78	28	gradient near4 filter$4 with noise and focus$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:19
S79	70	gradient near4 filter$4 same noise and focus$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:19
S80	13	gradient near4 filter$4 same noise with (smooth$4 or averag$4) and focus$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:20
S81	29	gradient with filter$4 same noise with (smooth$4 or averag$4) and focus$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:26
S82	1780	filter$4 with noise with (smooth$4 or averag$4) and focus$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:26

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S83	884	filter$4 with noise near5 (smooth$4 or averag$4) and focus$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:26
S84	36	filter$4 with noise near5 (smooth$4 or averag$4) same focus$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:27
S85	4	filter$4 with noise near5 (smooth$4 or averag$4) same focus$4 and gradient	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:28
S86	6	filter$4 with noise near5 (smooth$4 or averag$4) same focus$4 same (gradient or edge or contour)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:30
S87	252	filter$4 same noise same focus$4 same (gradient or edge or contour)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:31
S88	108	filter$4 with (gradient or edge or contour) same noise same focus$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:36
S89	8	filter$4 with (gradient or edge or contour) same noise same focus$4 with (large or small)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:37
S90	43	filter$4 with (gradient or edge or contour) same noise same focus$4 with (dust or noise)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:37
S91	0	filter$4 with (gradient or edge or contour) same noise same focus$4 with (dust)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:37
S92	7	filter$4 with (gradient or edge or contour) same noise and focus$4 with (dust)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:40

EAST Search History

S93	53	filter$4 with (gradient or edge or contour) and focus$4 with (dust)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 12:40
S94	10	(US-5841124-$ or US-5581631-$ or US-5654535-$ or US-5557097-$ or US-5499097-$ or US-5763871-$ or US-5875258-$ or US-5877489-$ or US-5892218-$ or US-5760387-$). did.	USPAT	OR	OFF	2008/01/18 14:28
S95	9	(US-5841124-$ or US-5581631-$ or US-5654535-$ or US-5557097-$ or US-5499097-$ or US-5763871-$ or US-5875258-$ or US-5877489-$ or US-5892218-$ or US-5760387-$). did. and (edge or gradient)	USPAT	OR	OFF	2008/01/18 14:30
S96	5014	(edge or gradient or contour) with filter$4 with (smooth$4 or lowpass or low$pass)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 14:32
S97	169	(edge or gradient or contour) with filter$4 with (smooth$4 or lowpass or low$pass) and filter with focus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 14:34
S98	75	(edge or gradient or contour) with filter$4 with (smooth$4 or lowpass or low$pass) with pass and filter with focus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 14:34
S99	20	(edge or gradient or contour) with filter$4 with (smooth$4 or lowpass or low$pass) with one and filter with focus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 14:34

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S10 0	21	(edge or gradient or contour) with filter$4 with (smooth$4 or lowpass or low$pass) with (one or single) and filter with focus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 14:35
S10 1	24	(edge or gradient or contour) with filter$4 with (smooth$4 or lowpass or low$pass) with (one or single or parallel) and filter with focus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 14:37
S10 2	24	(edge or gradient or contour) with filter$4 with (smooth$4 or lowpass or low$pass) with (one or single or parallel or simultaneously) and filter with focus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 14:37
S10 3	106	(edge or gradient or contour) with filter$4 with (smooth$4 or lowpass or low$pass) with (one or single or parallel or simultaneously) and focus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 14:39
S10 4	130	(edge or gradient or contour) with filter$4 with (smooth$4 or lowpass or low$pass) with (one or single or parallel or simultaneously or combin$5) and focus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 14:54
S10 5	165	(edge or gradient or contour or derivative) with filter$4 with (smooth$4 or lowpass or low$pass) with (one or single or parallel or simultaneously or combin$5) and focus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 14:55
S10 6	54	(gradient or derivative) with filter$4 with (smooth$4 or lowpass or low$pass) with (one or single or parallel or simultaneously or combin$5) and focus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 14:56

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S10 7	311	(gradient or derivative) with filter$4 with (smooth$4 or lowpass or low$pass) and focus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 14:57
S10 8	43	(gradient or derivative) with filter$4 with (smooth$4 or lowpass or low$pass) and focus$4 with camera	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 15:07
S10 9	45	(gradient or derivative) with filter$4 with (smooth$4 or lowpass or low$pass or blur$4 or intergrat$4) and focus$4 with camera	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/18 15:12
S11 0	11	(gradient or derivative) with filter$4 with (smooth$4 or lowpass or low$pass or blur$4 or intergrat$4) and autofocus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 10:30
S11 1	1	("4592089").PN.	USPAT; EPO	OR	OFF	2008/01/22 11:15
S11 2	1223	sobel and derivative	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 11:16
S11 3	28	sobel and derivative and autofocus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 11:16
S11 4	42	sobel and derivative and (autofocus$4 or auto$focus$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 11:17

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S11 5	31	sobel and derivative and (autofocus$4 or auto$focus$4) and (smooth$4 or low$pass or lowpass)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 11:24
S11 6	80	sobel and (autofocus$4 or auto$focus$4) and (smooth$4 or low$pass or lowpass)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 11:32
S11 7	24	median with filter$4 with (smooth$4 or blur$4 or low$pass or lowpass) and (autofocus$4 or auto$focus$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 11:39
S11 8	357	gradient with (smooth$4 or blur$4 or low$pass or lowpass) and (focus$ with image)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 11:40
S11 9	62	gradient with (smooth$4 or blur$4 or low$pass or lowpass) with filter$4 and (focus$ with image)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 11:59
S12 0	26	gradient with (low$pass or lowpass) and (focus$ with image)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 12:01
S12 1	8	gradient with (smooth$4) with combin$5 and (focus$ with image)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 12:02

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S12 2	3	(edge or contour) with (step or gradient) with (smooth$4) with combin$5 and (focus$ with image)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 12:06
S12 3	264	gradient with (smooth$4) and (focus$ with image)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 12:07
S12 4	30	gradient with (smooth$4) and (focus$ with image) and sobel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 12:07
S12 5	183	gaussian with crossing with zero	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 14:00
S12 6	2	gaussian with crossing with zero same focus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 14:01
S12 7	0	gaussian with crossing with zero with origin same focus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 14:02
S12 8	1	gaussian with crossing with zero with origin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 14:18

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S12 9	1	gaussian with cross$4 with zero with origin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 14:19
S13 0	0	pdf same cross$4 with zero with origin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 14:21
S13 1	660	pdf with gaussian	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 14:23
S13 2	1	pdf with gaussian with blur	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 14:23
S13 3	4	pdf with gaussian same focus$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 14:24
S13 4	26	pdf with gaussian with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 14:25
S13 5	170	derivative with gaussian with image	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/22 14:25
S13 6	1	("6175643").PN.	USPAT; EPO	OR	OFF	2008/01/23 10:05

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S13 7	351	zero adj cross$4 with gradient	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/23 11:17
S13 8	52	zero adj cross$4 with gradient same derivative	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/23 11:18
S13 9	96	zero with crossing with origin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/23 12:06
S14 0	6	zero with crossing with origin and pixel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/23 12:32
S14 1	206	zero with crossing with (gradient or slope) and pixel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/23 12:32

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Joseph, E.; Pavlidis, T.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on
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Mondal, P.P.; Rajan, K.;
Nuclear Science Symposium Conference Record, 2004 IEEE
Volume 6, 16-22 Oct. 2004 Page(s):3616 - 3619 Vol. 6
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Mondal, P.P.; Rajan, K.;
Systems, Man and Cybernetics, 2004 IEEE International Conference on
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Lee, J.; Haralick, R.; Shapiro, L.;
Robotics and Automation, IEEE Journal of [legacy, pre - 1988]
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☐ 5. **Extrema Detection of Optimal Smoothing Splines with Application to Ed**
Fujioka, Hiroyuki; Kano, Hiroyuki;
IEEE Industrial Electronics, IECON 2006 - 32nd Annual Conference on